NAFS QUICK REFERENCE GUIDE

NAFS - NORTH AMERICAN FENESTRATION STANDARD 2008
(Officially AAMA/WDMA/CSA 101/I.S.2/A440)

Covers Windows, Doors, Tubular Daylight Devices and Skylights in one Harmonized Standard. These products must conform to NAFS and the Canadian Supplement.


CANADIAN SUPPLEMENT CSA-A440S-09

ALL PRODUCTS RATED TO SEVERAL LEVELS OF PERFORMANCE:

PERFORMANCE CLASS:
- R - min. 15 psf
- LC - min. 25 psf
- CW - min. 30 psf
- AW - min. 40 psf

(Minimum Gateway Requirements)

PERFORMANCE GRADES:
A single number achieved for a class that represents structural and water performance (e.g. PG-25, PG-30, etc.)

For Part 3 Buildings - determined by Architect
For Part 9 Buildings - determined by Building Dept.

TESTING REQUIREMENTS:
Part 3 and Part 9 Buildings - Window tests required – see Table 27 minimum sizes for each product type

Must laboratory test individual windows, combination windows (mulled) and multi-lite windows with integral mullions

Performance labels can be temporary and must indicate both the primary designator (class, performance grade and size tested) and secondary designator (design pressures, water test pressures and air infiltration/exfiltration level denoted by A2, A3 or Fixed)

To ensure compliance to NAFS:
- For each project determine what Performance Class and Grade your product will need to meet – consult building department for Part 9 buildings; review architectural window schedule, project specifications, consult architect and window engineer for Part 3 buildings. Check Canadian Supplement page 21, Figure A.1 Checklist
- Ensure your product meets the required class and grade by way of testing
- Ensure your products have been tested to fully anticipated worst case sizes and configurations that may occur on a project
- For Part 9 Buildings – affix permanent & temporary labels to each window
- For Part 3 Buildings – permanent labels at each window; indicate all performance levels on stamped shop drawings which may substitute for temporary labels (i.e. for window wall on high-rises) although this has not yet been confirmed

Note: NAFS does not include interior doors and windows, vehicular access doors (garage doors), curtain wall, storefront, storm doors, storm windows, commercial entrance systems, sunrooms, revolving doors, site built door systems and commercial steel doors

Can be etched into the glass or affixed to the product frame (i.e. must be permanently visible after installation)

Performance Grade is dependent upon:
- Building height
- Geographical Location
- Open or Rough Terrain
- Building must be on level terrain to use the simplified method of wind load determination

Use simplified method to determine:
- Wind Pressure (HWP)
- Water Pressure (DRWP)
- Test Pressures
- Performance Grade and Secondary Designators required based on the above

Permanent labels must indicate at least the name of manufacturer and can be etched into the glass or affixed to the product frame (i.e. must be permanently visible after installation)

Note: only products installed in Canada still require the A rating (either of A2, A3 or Fixed) for infiltration/exfiltration

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USED TO DETERMINE PERFORMANCE GRADES (Use Checklist on page 21 to determine performance requirements)

Use: This summary is intended as a guide only to the major parts of the NAF standard. It is does not absolve the user of fully reviewing all requirements for supplying a product, including but not limited to reviewing project specifications, window schedules, authorities having jurisdiction, etc. Consult the full edition of the NAFS and Canadian Supplement where needed to meet requirements. FEN-BC assumes no liability for errors or omissions from use of this summary.